

PART TWELVE

# ART WORK

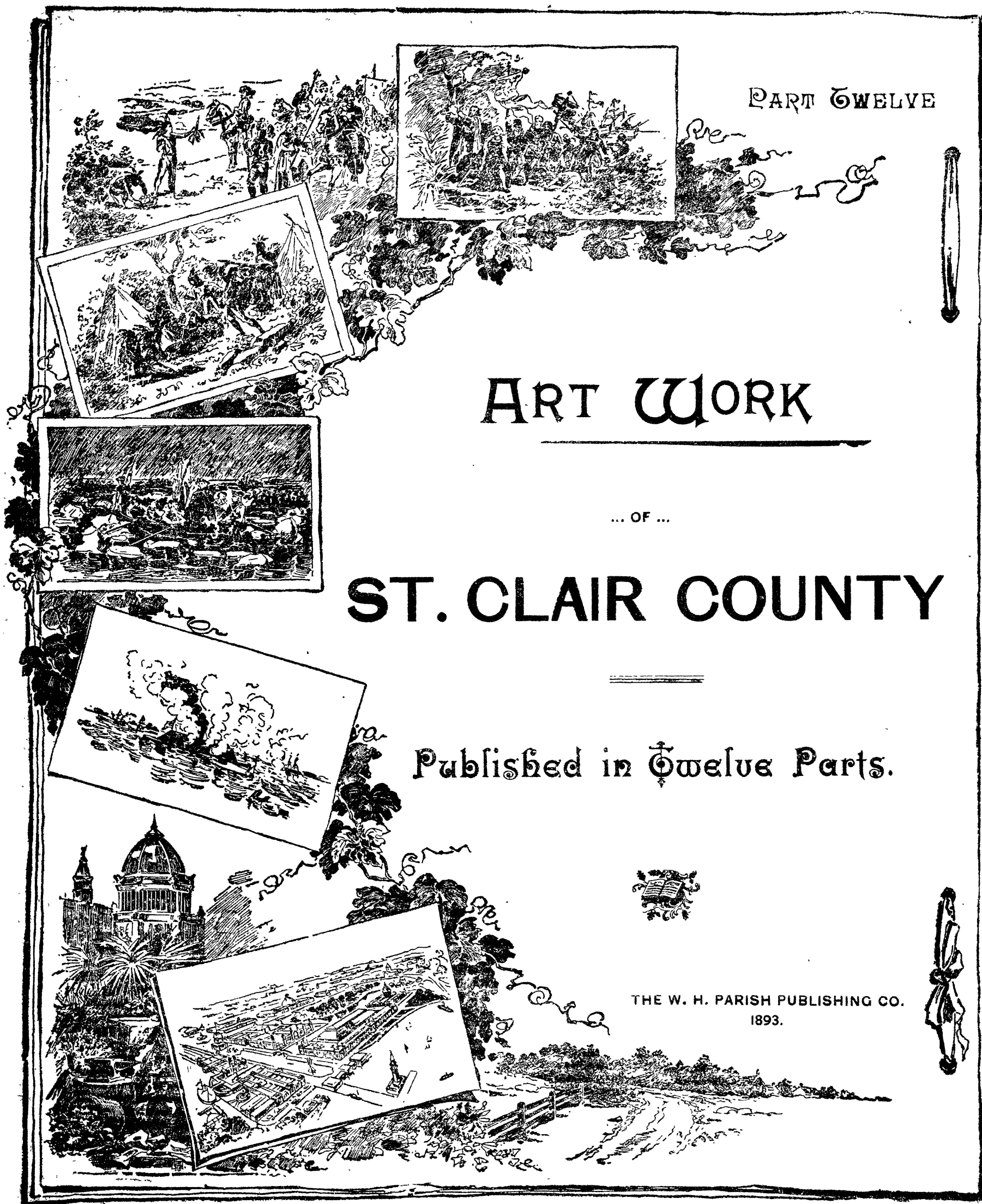
... OF ...

## ST. CLAIR COUNTY

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1893.







FIRST BAPTIST CHURCH—PORT HURON.





SCENES ON BELLE RIVER.





LOOKING SOUTH ON MILITARY STREET, FROM WATER—PORT HURON.







SCENE ON GRATIOT AVENUE—PORT HURON.



SUMMER COTTAGE OF J. W. THOMSON, AT GRATIOT BEACH—PORT HURON.





VIEW ON MILL CREEK, AT YALE.



M. E. CHURCH—YALE.





WHITE BUILDING—PORT HURON.



#### "CHARACTER OF LOCOMOTIVES.

"In transporting cars through the tunnel a style of locomotive known as the 'Decapod' will be used. The ordinary road or traffic locomotive will not be used for the purpose. It is presumed, also, that some means will be adopted to render these locomotives smokeless, as dense coal smoke confined to the limits of the tunnel would seriously interfere with the successful use of the great highway.

#### "VARIATIONS OF THE SHIELD.

"Slight variations of the shield were frequently detected by the use of nicely adjusted instruments known to the art of survey, and these variations were quickly and accurately adjusted by hydraulic power. By concentrating the force to one particular portion of the shield its direction was changed as desired. To watch this great steel cylinder and see that it did not vary from a direct line, or to bring it back again into line when its course became erratic, was the duty of the trained civil engineer. When these massive machines had approached to within a few feet of each other under the bed of the river, say to within a dozen feet or less, an auger was brought into use, and, piercing the center of the intervening clay, it was thrust through to the space beyond, and through this aperture the builders conversed with each other. The engineer in charge informs me that his anxiety at this time to test the correctness of his previous observations was most intense. At first the conditions to make an accurate test were not favorable, at least not perfect, and at the first glimpse through the instrument into the space beyond he thought he detected an error, and his depression and chagrin over what he for a moment felt to be a blunder in calculation was only equaled by his final great joy when the final truth was revealed to him. The engineer's vision had for a moment been defective; but the shields, which for weary months had been the mute objects of his watchful care, were exactly in line. They had not deviated one inch from the course which science had marked out as their pathway.—SAMUEL D. PACE, *Consul*.

*"United States Consulate, Port Sarnia, October 11, 1890."*









